Newzen Consultants Bangalore

**Date: 05-04-2018**

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Water absorption, % | **0.65 %** | Not more than 2.0 % |
| 2. | Liquid Limit, % | **19.34** | Not more than 25.0 % |
| 3. | Plasticity Index, % | **NP** | Not more than 6.0 % |
| 4. | Moisture Content, % | **6.37** | ---------- |
| 5. | Aggregate Impact Value, % | **27.83** | Not more than 40.00 % |



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# NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-G2 Date: 06-04-2018

## TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

**Sub**: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}
**Ref.**: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

1. **Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 26.50 | **97.45** | 70-100 |
| 9.50 | **71.26** | 50-80 |
| 4.75 | **53.43** | 40-65 |
| 2.36 | **45.87** | 30-50 |
| 0.425 | **12.35** | 10-15 |
| 0.075 | **3.34** | <5 |



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Newzen Consultants Bangalore

Date: 06-04-2018

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Water absorption, % | **0.45 %** | Not more than 2.0 % |
| 2. | Liquid Limit, % | **22.45** | Not more than 25.0 % |
| 3. | Plasticity Index, % | **NP** | Not more than 6.0 % |
| 4. | Moisture Content, % | **6.34** | ---------- |
| 5. | Aggregate Impact Value, % | **26.87** | Not more than 40.00 % |



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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-G3 Date: 09-04-2018

## TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

**Sub**: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}
**Ref.**: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

1. **Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 26.50 | **97.86** | 70-100 |
| 9.50 | **73.50** | 50-80 |
| 4.75 | **57.31** | 40-65 |
| 2.36 | **44.86** | 30-50 |
| 0.425 | **12.15** | 10-15 |
| 0.075 | **2.76** | <5 |

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**Date: 09-04-2018**

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Water absorption, % | **0.46 %** | Not more than 2.0 % |
| 2. | Liquid Limit, % | **19.56** | Not more than 25.0 % |
| 3. | Plasticity Index, % | **NP** | Not more than 6.0 % |
| 4. | Moisture Content, % | **7.12** | ---------- |
| 5. | Aggregate Impact Value, % | **27.45** | Not more than 40.00 % |



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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-G4 Date: 12-04-2018

## TEST REPORT ON GRANULAR SUBBASE MIX
(GRADATION TEST)

**Sub**: To conduct tests on GSB (with close graded materials, Grade-II) mix.
{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}
**Ref.**: Material testing/PMC/17-18,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

1. **Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 26.50 | **98.32** | 70-100 |
| 9.50 | **68.67** | 50-80 |
| 4.75 | **52.51** | 40-65 |
| 2.36 | **45.67** | 30-50 |
| 0.425 | **11.46** | 10-15 |
| 0.075 | **3.66** | <5 |

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Newzen Consultants Bangalore

**Date: 12-04-2018**

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Water absorption, % | **0.87%** | Not more than 2.0 % |
| 2. | Liquid Limit, % | **21.34** | Not more than 25.0 % |
| 3. | Plasticity Index, % | **NP** | Not more than 6.0 % |
| 4. | Moisture Content, % | **7.45** | ---------- |
| 5. | Aggregate Impact Value, % | **27.88** | Not more than 40.00 % |



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Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-W1 Date: 11-04-2018

## TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

**Ref.**: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 45.00 | **98.45** | 95-100 |
| 26.50 | **---** | - |
| 22.40 | **73.66** | 60-80 |
| 11.20 | **55.67** | 40-60 |
| 4.75 | **32.33** | 25-40 |
| 2.36 | **29.77** | 15-30 |
| 0.600 | **19.23** | 8-22 |
| 0.075 | **3.87** | 0-5 |



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Newzen Consultants Bangalore

Date: 11-04-2018

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | **26.76 %** | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | **27.33 %** | Not more than 35.0 % |
| 3. | Water absorption, % | **0.77 %** | Not more than 2.0 % |
| 4. | Plasticity Index, % | **NP** | Not more than 6.0 % |



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NZ/QC/YPD/T&F-W3/2018-19/P2-W2 Date: 16-04-2018

## TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

**Ref.**: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 45.00 | **97.23** | 95-100 |
| 26.50 | **---** | - |
| 22.40 | **69.44** | 60-80 |
| 11.20 | **52.33** | 40-60 |
| 4.75 | **34.87** | 25-40 |
| 2.36 | **21.78** | 15-30 |
| 0.600 | **16.32** | 8-22 |
| 0.075 | **3.87** | 0-5 |

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Newzen Consultants Bangalore

**Date: 16-04-2018**

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | **26.33 %** | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | **27.89 %** | Not more than 35.0 % |
| 3. | Water absorption, % | **0.76 %** | Not more than 2.0 % |
| 4. | Plasticity Index, % | **NP** | Not more than 6.0 % |



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NZ/QC/YPD/T&F-W3/2018-19/P2-W3 Date: 17-04-2018

## TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

**Ref.**: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 45.00 | **97.15** | 95-100 |
| 26.50 | **---** | - |
| 22.40 | **73.55** | 60-80 |
| 11.20 | **51.27** | 40-60 |
| 4.75 | **29.56** | 25-40 |
| 2.36 | **22.58** | 15-30 |
| 0.600 | **15.87** | 8-22 |
| 0.075 | **3.46** | 0-5 |

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Newzen Consultants Bangalore

**Date: 17-04-2018**

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | **27.89 %** | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | **28.63 %** | Not more than 35.0 % |
| 3. | Water absorption, % | **0.73 %** | Not more than 2.0 % |
| 4. | Plasticity Index, % | **NP** | Not more than 6.0 % |

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# NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

Newzen Consultants Bangalore

NZ/QC/YPD/T&F-W3/2018-19/P2-W4 Date: 19-04-2018

## TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

**Sub**: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

{Project*: Package-2 1.Improvement of drains and resurfacing to roads in Hindu Samaja Road and Surrounding Sirke Apartment area in ward no.03, Attur. 2.Improvements of Roads at Adithyanagara in ward no 03. 3.Improvements of Roads And Drains at Santhosh Nagara and Muneshwara Nagara In ward no 03, Attur.}

**Ref.**: Material testing/PMC/17-18,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Naveen Rao N (M/s Nischal Constructions).

## TEST RESULTS

**1. Gradation Test:**

**TABLE 1.1**

| Sieve Size mm | Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation) | Specified Limits as per MoRTH Specifications, V Revision-2013 |
|---|---|---|
| 53.00 | **100.00** | 100 |
| 45.00 | **98.90** | 95-100 |
| 26.50 | **---** | - |
| 22.40 | **77.56** | 60-80 |
| 11.20 | **53.72** | 40-60 |
| 4.75 | **36.76** | 25-40 |
| 2.36 | **22.86** | 15-30 |
| 0.600 | **14.29** | 8-22 |
| 0.075 | **3.40** | 0-5 |

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Date: 19-04-2018

**TABLE 1.2**

| SL No | Test conducted | Test Results | Tests Conforms to IS 2386( Part I to IV)– 1963 ( Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013. |
|---|---|---|---|
| 1. | Aggregate Impact Value | **26.82 %** | Not more than 30.00 % |
| 2. | Combined Flakiness and Elongation index, % | **29.33 %** | Not more than 35.0 % |
| 3. | Water absorption, % | **0.44 %** | Not more than 2.0 % |
| 4. | Plasticity Index, % | **NP** | Not more than 6.0 % |



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